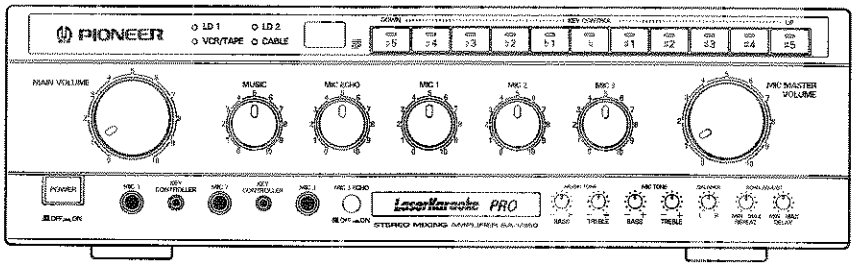
PIONEER
The Art of Entertainment

Operating Instructions
使用説明書

SA-V350
SA-V300

STEREO MIXING AMPLIFIER
立體聲混合放大器



English

中國語

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

⚠WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The following symbols are found throughout this manual and labeled on the product. They alert the operators and service personnel of this equipment to potentially dangerous conditions.

⚠WARNING
This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

⚠CAUTION
This symbol refers to a hazard or unsafe practice which can result in personal injury or property damage.

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承蒙惠購本 PIONEER 牌產品表示衷心的感謝。
請通讀本使用說明書以便掌握正確的操控方法。讀完使用說明書後，請保管在安全的場所以備日後做參考使用。
在一些國家或地區，電源插頭和電源輸出插座的形狀有時可能會與圖解中的形狀不同。但是，裝置的聯接方法和操作方法相同。

⚠ 警告： 為防止火警或觸電危險，請勿將本裝置曝露於雨或濕氣中。

下列符號可以在本使用說明書上看到，并貼標籤於產品上。它們用於提醒本裝置的操作人員或維修人員本裝置有潛在的危險狀態。

⚠ 警告
本符號表示存在能夠造成嚴重的人身傷害或死亡的危險或不安全的動作。

⚠ 注意
本符號表示存在能夠造成嚴重的人身傷害或財產損壞的危險或不安全的動作。

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IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

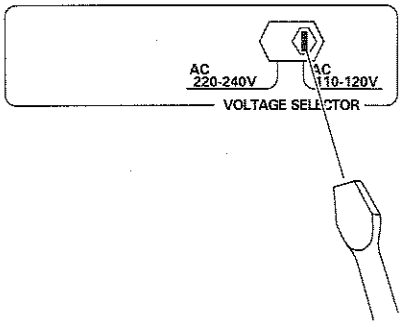
CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

LINE VOLTAGE SELECTOR SWITCH

The line voltage selector switch is on the rear panel. Before your model is shipped from the factory, this switch is set to the power requirements of the destination. Check that it is set properly before plugging the power cord into the AC wall socket. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows.

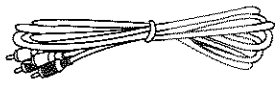
1. Use a medium-size screwdriver.
2. Insert the screwdriver into the groove on the voltage selector, and adjust to the voltage value of your area.



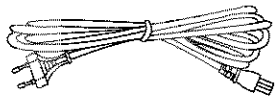
ABOUT UNIT COOLING

This stereo component is cooled by a forced cooling system. Cool outside air is taken in through the intake vents on the unit's left side and lower front edge, and heated air is exhausted by a fan through the vents on the rear panel. As a result, objects should not be placed nearby the unit where they might block the intake or outlet vents, and likewise, the unit should not be installed in a narrow space (such as a rack) where the intake or outlet vents might be obstructed.

ACCESSORY ITEMS



Audio cord



Power cord

BEFORE CONNECTION

Connection Precautions

- Do not turn this product or the stereo components ON before all connections are completed.
- The INPUT/OUTPUT terminals of this product are assigned as "L" for the left channel and "R" for the right channel. Be sure to connect to the correct channel.
- Insert the connection cables correctly. Improper connection may result in no sound from the speakers or cause background noise.

POWER-CORD CAUTION

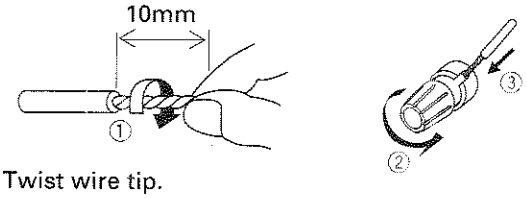
Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

CONNECTIONS

Be sure to switch the power of this product and the stereo components ON only after all connections of stereo system are completed.

Connection of Speaker Cord

Strip off the vinyl coating and put the wire ends together.



①Twist wire tip.
②Loosen the screw.
③Tighten the screw and fasten the wires.

NOTE:

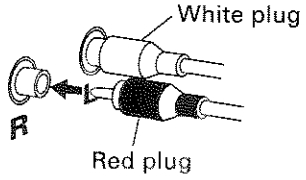
Be careful to avoid wires from sticking out from the terminal and touching other wires, as this might cause malfunction.

Impedance of Speaker System

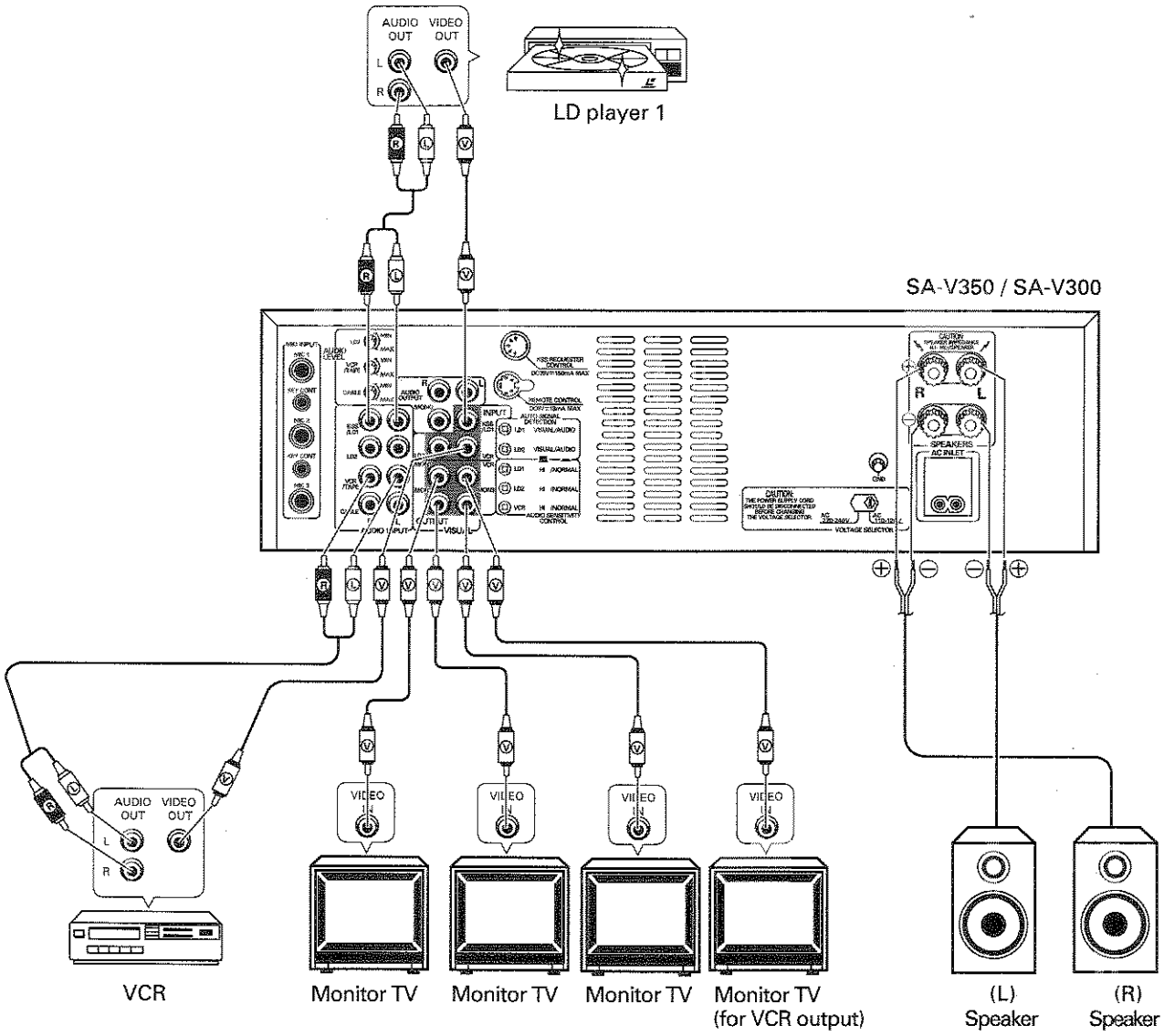
Speaker systems with a nominal impedance of 4 to 16 Ω can be used.

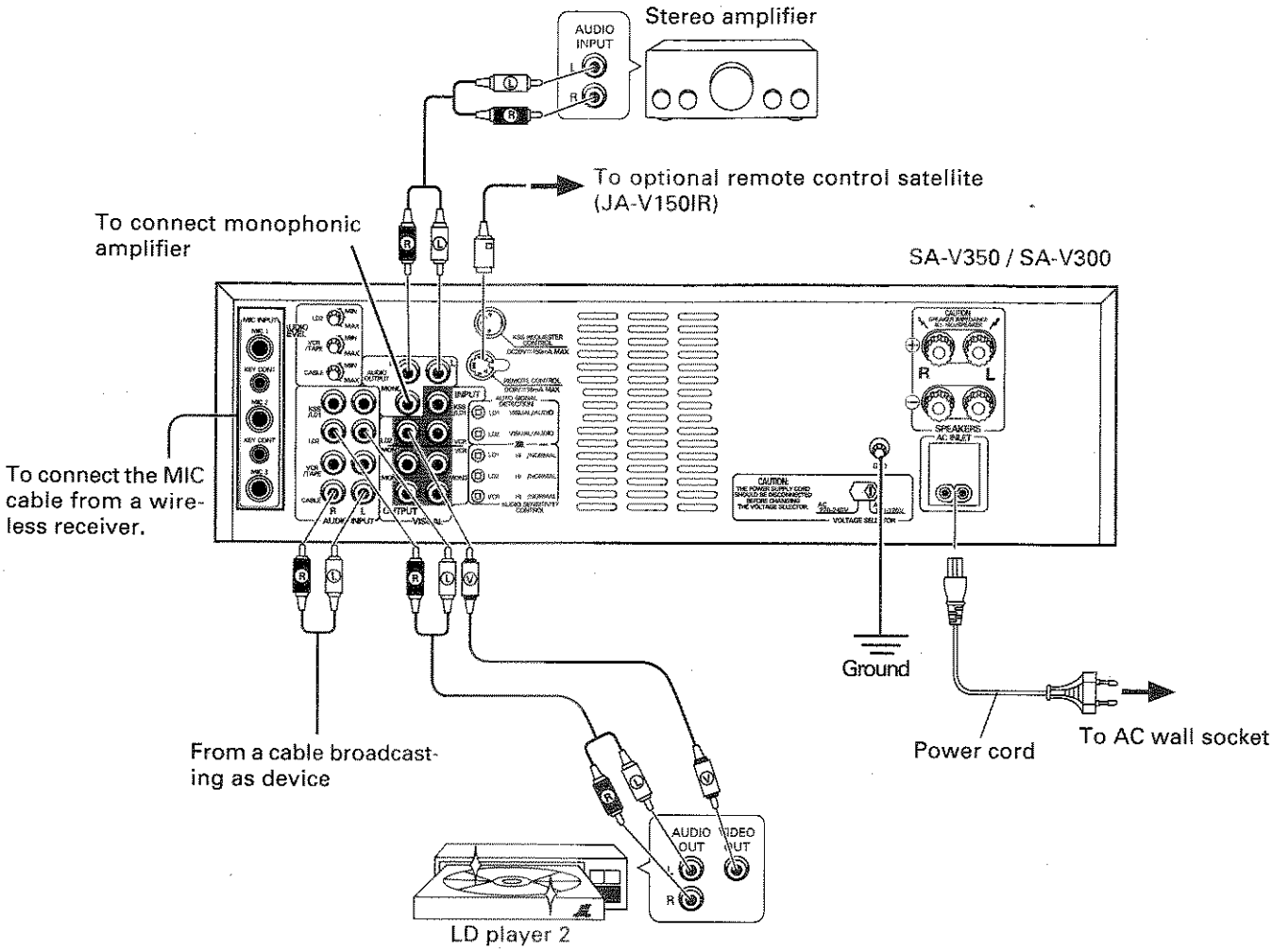
Connection of Input and Output Cords

- Connect white plug to "L" side and red plug to "R" side. Make sure to insert them securely.



- Insert the pin plug of the connecting cords securely. Incomplete plugging may result in noise or insufficient sound.


AUDIO OUT
VIDEO OUT
L
R
LD player 1
SA-V350 / SA-V300
SPEAKERS
AC INLET
VOLTAGE SELECTOR
VIDEO IN
VCR
Monitor TV
Monitor TV
Monitor TV
Monitor TV
(for VCR output)
(L)
Speaker
(R)
Speaker

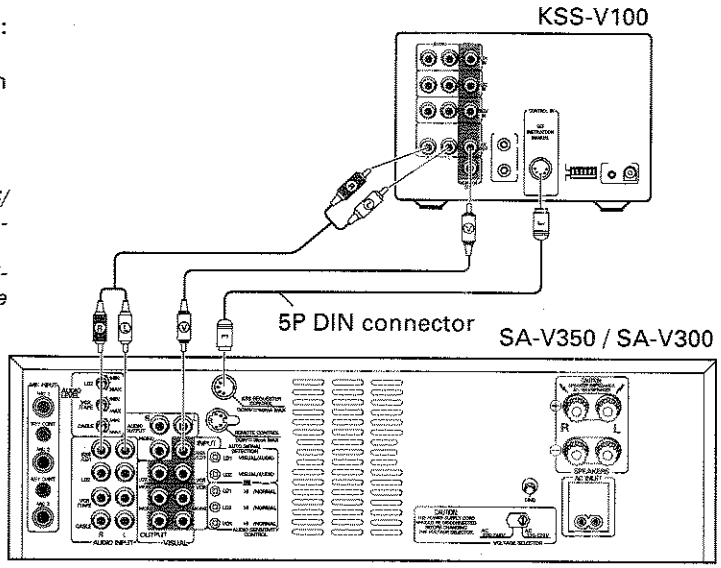


When used with the Song Request System (KSS-V100):

See the instruction manual of the song request system for details of connection.

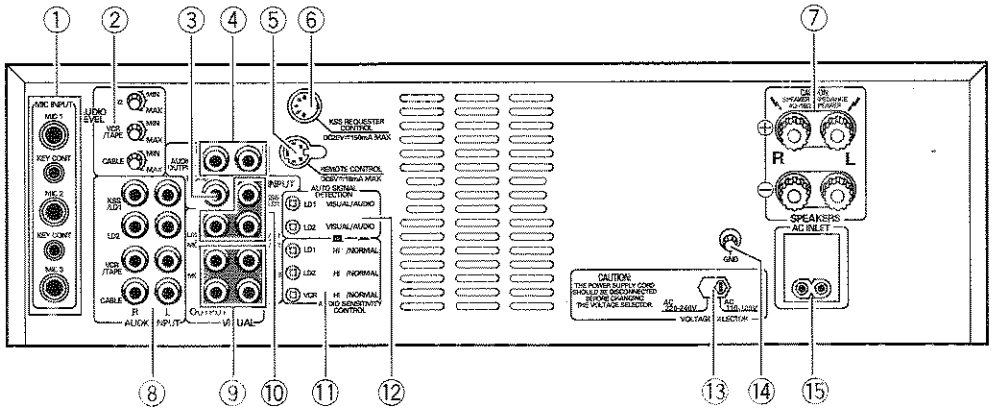
NOTES:

- *Be sure to connect audio/video cables to the rear panel KSS/LD1 INPUT jacks. Noise may be caused if the cables are connected to other function jacks.*
- *When using the remote control unit furnished with the KSS-V100, the KSS-V100 can be controlled by pointing the remote control unit at the signal receiver on the amplifier.*



PANEL FACILITIES

REAR PANEL



① MIC INPUT jacks (MIC 1-3)

The MIC INPUT jacks are also used for connection to the optional wireless mic receiver.
When using microphones with key control remote switch connected to MIC 1 and 2, connect the control cords to the KEY CONT jacks.
If a microphone is connected to the MIC jack on the front panel, front input has priority.

NOTES:

- *Position of the key controller may change by connecting/disconnecting of the remote plug. In such a case, set it again to the desired position.*
- *For the key control function, both front and rear inputs are effective.*

② AUDIO LEVEL controls

LD2

Controls the volume of the LD2 AUDIO INPUT terminals sound.
Under normal conditions, leave this dial in the center position.
If you notice excessive difference in sound volume with the component connected to the KSS/LD1 jacks, use this dial to adjust the volume.

VCR/TAPE

Control the input sound level of devices connected to the VCR/TAPE AUDIO INPUT terminals.
Under normal conditions, leave this dial in the center position.
If you notice excessive difference in sound volume with the component connected to the KSS/LD1 jacks, use this dial to adjust the volume.

CABLE

Controls the volume of the CABLE AUDIO INPUT terminals sound.
Under normal conditions, leave this dial in the center position.
If you notice excessive difference in sound volume with the component connected to the KSS/LD1 jacks, use this dial to adjust the volume.

③ AUDIO OUTPUT jack (MONO)

The L and R audio signals input to the AUDIO INPUT jacks (KSS/LD1,LD2,VCR/TAPE,CABLE) always appear as L + R monaural.

④ AUDIO OUTPUT jacks (R,L)

These jacks are used to output the L and R audio signals which have been input to the AUDIO INPUT terminals (KSS/LD1,LD2,VCR/TAPE,CABLE) of this unit. The sound from the AUDIO OUTPUT jacks can be adjusted using the unit's MAIN VOLUME and BALANCE control.

⑤ REMOTE CONTROL input jack

Connect the optional remote control satellite. Installing the satellite on the ceiling or wall allows the remote control unit to function properly even if obstacles exist between the amplifier and the remote control unit. See the instruction manual of the remote control satellite for details of connection.

⑥ KSS REQUESTER CONTROL jack

Connect the optional song request system (KSS-V100). When the remote control unit furnished with the KSS-V100 is pointed at this amplifier's sensor, the remote control unit can be used to send data to the connected song request system.

⑦ SPEAKERS terminals

For details, refer to "CONNECTIONS" on pages 3, 4.

NOTE:

Always connect the plus (+) and minus (−) wires of the speakers to the speaker terminals of the same polarity. A polarity error can cause unnatural sound.

⑧ AUDIO INPUT jacks

KSS/LD1, LD2

Connect to the AUDIO jacks of a LD player.

VCR/TAPE

Connect to the AUDIO OUT jacks of a VCR or to the PLAY (OUTPUT) jacks of a cassettedeck.

CABLE

Use to connect a cable broadcast receiver.

⑨ VISUAL OUTPUT jacks

MON (Monitor) 1-3

Jacks for connection to the VIDEO INPUT jacks of TV monitors (maximum three monitors).

VCR

Signals input to the VCR VISUAL INPUT jack of the SA-V350/SA-V300 will always be output. By connecting to a TV monitor, you can monitor a VCR.

⑩ VISUAL INPUT jacks

KSS/LD1, LD2

Connect to the VIDEO OUTPUT jack of the LD player.

VCR

Connect to the VIDEO OUTPUT jack of the VCR.

⑪ AUDIO SENSITIVITY CONTROL buttons

Use to control the audio detection sensitivity of the component connected to the KSS/LD1, LD2, and VCR/TAPE AUDIO INPUT jacks.

LD1 ▁ **NORMAL**: Normal position
▮ **HI** : Set this switch to HI if the function automatically changes to "LD2", "VCR/TAPE", or "CABLE" during playback of the component connected to the KSS/LD1 jacks.

LD2 ▁ **NORMAL**: Normal position
▮ **HI** : (When no KSS/LD1 signal is input) Set this switch to HI if the function automatically changes to "VCR/TAPE" or "CABLE" during playback of the component connected to the LD2 jacks.

VCR ▁ **NORMAL**: Normal position
▮ **HI** : (When neither KSS/LD1 nor LD2 signal is input.) Set this switch to HI if the function automatically changes to "CABLE" during playback of the component connected to the VCR/TAPE jacks.

⑫ AUTO SIGNAL DETECTION buttons

Use to select whether auto input selection is performed in accordance with the video signal or audio signal.
Set these buttons to AUDIO when the component connected to the KSS/LD1 and LD2 jacks is a CD player or other component which does not produce a video signal.
In the case of a component with a video signal, set these buttons to VISUAL.

NOTE:

In the case of components which produce a video image even when the track is stopped, auto input selection will not be performed if the buttons are set to VISUAL. As a result, in such cases set the buttons to AUDIO.

⑬ VOLTAGE SELECTOR switch

See page 2.

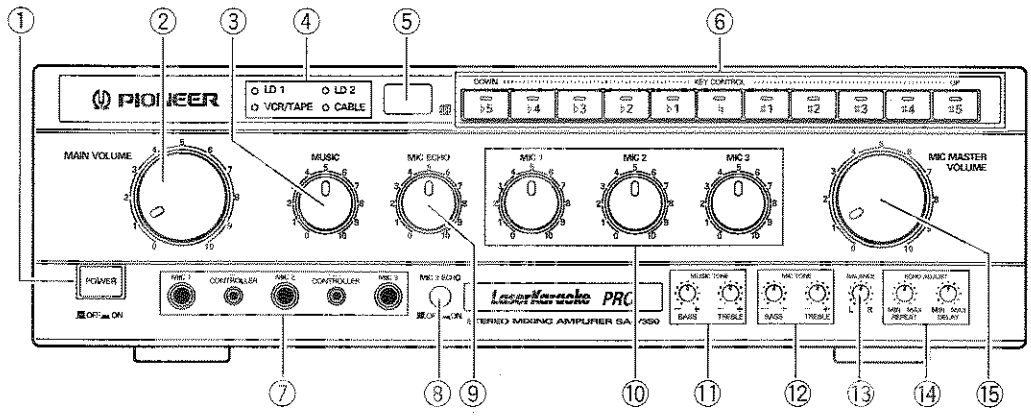
⑭ GND (Ground) terminal

Always ground this unit to prevent electrical shock and to avoid generating interference or noise in other equipments.

⑮ AC INLET jack

Connect one end of the power cord to here and the other end to an AC wall socket.
If you are going to be away from home for a long period of time, disconnect the power cord from the wall socket.

FRONT PANEL



① POWER switch(■ OFF, ▁ ON)

Pressing this switch turns ON the power.
Pressing this switch again turns OFF the power.

② MAIN VOLUME control

Controls the volume of the sound from the speakers.

③ MUSIC control

Controls the volume of equipments connected to the KSS/LD1,LD2,VCR/TAPE and CABLE jacks on the rear panel. Normally, keep the MAIN VOLUME control near the 3-5 position and use the MUSIC control to adjust the volume of the music source.

④ Auto input selector indicators

This unit automatically selects the input source signals with priority in the order of LD1, LD2, VCR/TAPE, and CABLE. These indicators display the output source accordingly.

⑤ REMOTE SENSOR

⑥ KEY CONTROL buttons/indicators

Press to change the pitch of the music source.

■ ♮

Changes to the standard pitch.

■ ♯1 - ♯5

A maximum raise of five tones above the setting of the standard key is possible in semitone-steps.

■ ♭1 - ♭5

A maximum decrease of five tones below the setting of the standard key is possible in semitone-steps.

NOTES:

- *No key change is possible when "CABLE" has been selected by the input selector.*
- *When the track is completed and the video image or sound signal ends, the KEY returns automatically to "♮".*

⑦ MIC (MIC 1 - 3) and KEY CONTROLLER jacks

Three microphones can be connected simultaneously. When using a microphone with key control switch, connect it to MIC 1 or MIC 2 jack. And be sure to connect the control cable to the KEY CONTROLLER jack.

KEY CONTROLLER jack

The set position of the key control might change when the control plug is connected to or removed from the KEY CONTROLLER jack. In such a case, reset to the desired position.

MIC jack

When a microphone is also connected to a MIC INPUT jack on the rear panel, the microphone connected to the front panel has priority. Note that there is no priority order with the key control function.

⑧ MIC 3 ECHO switch (■ OFF, ▁ ON)

This switch controls only the echo for the microphone 3 input.

⑨ MIC ECHO control

Controls the echo levels for microphones 1,2 and 3 simultaneously.

NOTE:

When using a microphone, the original sound itself is processed as well as any effect sound such as an echo, which is added to the original sound.

Therefore, the echo mode will remain activated even when the MIC ECHO control is set to minimum.

When using an effect sound, set the MIC ECHO control to "3"-"4".

⑩ MIC volume controls (MIC 1 - 3)

To adjust the respective microphones volume level against the music source.

Normally, keep the MAIN VOLUME control and MIC MASTER VOLUME control near the 3-5 position and use the MIC controls to adjust the volumes.

MIC 1 and 2 have a function which automatically reduces the sound volume to a proper level when distortion is caused by howling or an excessively loud voice.

⑪ MUSIC TONE control (bass/treble)

Adjusts the tone (bass/treble) of the device connected to the KSS/LD1, LD2, VCR/TAPE or CABLE jacks on the rear panel.

⑫ MIC TONE control (bass/treble)

Can simultaneously adjust the tone of MIC 1,2 and 3. Adjusts bass and treble.

⑬ BALANCE control

Adjusts the sound balance of both speakers.

⑭ ECHO ADJUST control

Varies the echo characteristics of MIC 1,2 and 3.

REPEAT: Adjusts the timing of the echo (number of repetitions).

DELAY: Adjusts the repetition interval of the echo.

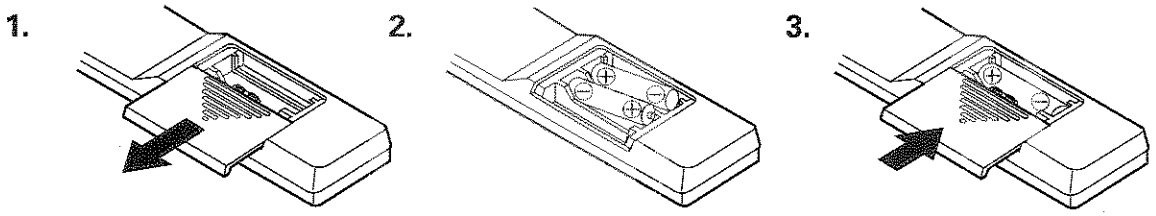
⑮ MIC MASTER VOLUME control

Use to simultaneously adjust the sound volume of all microphones (MIC 1-3).

REMOTE CONTROL UNIT (CU-V150 /sold separately)

This remote control unit (CU-V150) is available as a separately purchased option, and is not included with the SA-V350 or SA-V300.

INSERTING BATTERIES IN THE REMOTE CONTROL UNIT



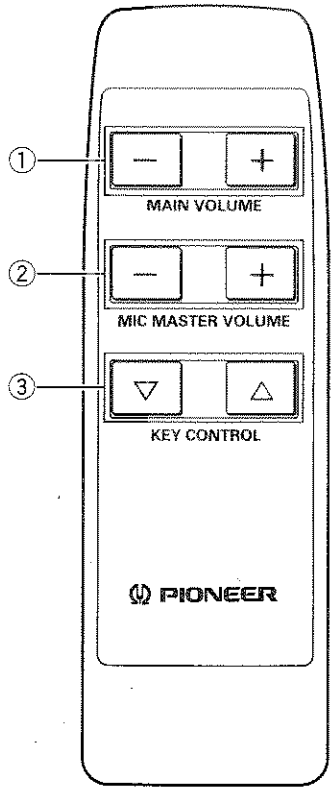
1. **Open the cover of the battery case on the rear side of the remote control unit.**
2. **Take out the two supplied batteries (AAA/R03), and insert them into the battery compartment in accordance with the indications in the compartment.**
3. **Close the cover.**

⚠CAUTION

Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:

A: Always insert batteries into the battery compartment correctly matching the positive (+) and negative (–) polarities, as indicated inside the compartment.
B: Never mix new and used batteries.
C: Batteries of the same size may have different voltages, depending on their type. Do not mix different types of batteries.

PANEL FACILITIES



① MAIN VOLUME (–, +) button

Controls the volume of the sound from the speakers.

② MIC MASTER VOLUME (–, +) button

Use to simultaneously adjust the sound volume of all microphones (MIC 1-3).

③ KEY CONTROL (▲,▼) button

▲ : Changes to a higher key.
▼ : Changes to a lower key.

The optional remote control unit (CU-V150) allows you to control the amplifier from a remote location. Point the remote control unit at the amplifier's sensor. The remote control unit can be used within a distance of 7 m and at up to an angle of 30 degrees.

- The remote control unit might not operate properly when an obstacle exists between the sensor and the remote control unit. Also, the remote control unit might not work if it is pointed from an improper angle.
- Remote control operation might not work if the remote control sensor is directly hit by strong fluorescent light. In such a case, place the fluorescent lamp away from the amplifier.
- If the remote control unit is used near a device emitting infrared rays, or another remote control unit using infrared rays is operated nearby, improper operation might occur. Also, a device using infrared rays might operate improperly if the remote control unit is used near the device.
- Replace the batteries if the available operation range of the remote control unit becomes very small.
- To prevent leakage, remove the batteries if you do not use the remote control unit for a long period (more than 1 month).

OPERATION

The numbers following the names of switches and controls in this section correspond to the numbers shown in the "FRONT PANEL".

1. **Turn the power ON to the SA-V350/SA-V300 and other components.**
   When using an LD player, turn on the TV monitor.

2. **Connect the microphone(s) to the MIC jack(s) ⑦.**

3. **Set the MAIN VOLUME control ② as desired (e.g. set to 3-5).**

4. **Start playback. Adjust the volume level with the MUSIC control ③ and speaker balance with the BALANCE control ⑬.**

5. **Set the MIC MASTER VOLUME control ⑮ as desired (e.g. set to 3-5).**

6. **Speak or sing into the microphone and adjust the volume level with the MIC volume control ⑩.**

7. **Adjust the sound with the MUSIC TONE controls ⑪, ECHO ADJUST controls ⑭, MIC TONE controls ⑫, and MIC ECHO control ⑨ as desired.**

8. **Select the desired key with the KEY CONTROL buttons ⑥.**

AUTO SOURCE SELECTOR

The SA-V350/SA-V300 automatically selects and outputs all input signals according to the following priority.
1. LD1
2. LD2
3. VCR/TAPE
4. CABLE

The audio input sensitivity of LD1, LD2 and VCR can be changed by the AUDIO SENSITIVITY CONTROL button on the rear panel.
Input sensitivity of LD1 and LD2 can be switched only when the AUTO SIGNAL DETECTION button is set to AUDIO.

Automatic output switching of TV monitor

When function is set to LD1, LD2, or VCR/TAPE, the video image corresponding to the currently selected function is output through the VISUAL OUTPUT (MON 1-3) jacks.
When function is set to CABLE, the VCR/TAPE image is output through the VISUAL OUTPUT (MON 1-3) jacks.

Fade-in function for cable

When the SA-V350/SA-V300 is switched from LD1, LD2 or VCR/TAPE mode to CABLE mode, the fade-in circuit is activated and the volume level gradually increases to the level that has been set by the MASTER VOLUME control after approx. 2 to 8 seconds.

ENJOY THE ECHO EFFECT

ECHO

● Adjustment of the Microphone Echo Volume

An echo effect makes you feel as if you are singing well, just like when you are humming in the bathroom. With the amplifier, the echo can be simultaneously applied to MIC 1-3. The echo volume can be adjusted with the MIC ECHO control. MIC 3 can be turned on/off using the switch.

● Echo Adjustment

Echo can be adjusted by the following:

REPEAT:
Changes the echo cycle to enhance the echo effect. Adjust to a shorter echo cycle for tunes with a quick tempo. Adjust to a longer echo cycle for tunes with a slow tempo.

DELAY:
Changes the echo intervals to enhance the echo effect. Adjust the intervals according to the tempo of the tune.

Adjust to the desired echo effect by using the REPEAT and DELAY controls.

● To Maximize the Echo Effect for Karaoke (Sing-Along) :

Set the sound volume of the music slightly lower than the vocal.
This will improve the mixing balance and maximize the echo effect.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
No sound from both or either speaker.	● Power cord is unplugged. ● BALANCE control is set to max. Right or left position. ● Either plug of the speaker cord is disconnected.	● Connect the power cord. ● Set the control to center position. ● Connect the plug securely.
Microphone mixing does not operate.	● Microphone is incompletely plugged. ● MIC volume control or MIC MASTER VOLUME control is set to minimum.	● Plug the microphone completely into the jack. ● Adjust with the MIC volume control or MIC MASTER VOLUME control.
Remote control unit does not work.	● No battery is loaded in the remote control unit, or remaining service life is low. ● A fluorescent lamp is near the remote control sensor. ● The distance to the amplifier is too far, or the remote control unit is pointed at an improper angle. ● An obstacle exists between the remote control unit and the amplifier.	● Insert new batteries. ● Place the fluorescent lamp away from the amplifier. ● Use the remote control unit within a range of approximately 7 m and at an angle of approximately 30 degrees or less. ● Use the remote control unit from a different angle, or remove the obstacle.
The auto input selector indicators are flashing.	● The amplifier's internal temperature has exceeded protection circuit limits.	● Unplug the power cord and check the following items: • Is the speaker impedance within the specified limits? • Have the speaker wires become accidentally short-circuited?
All auto input selector indicators light; the KEY CONTROL button doesn't operate and no sound is produced.	● Same as above (protection circuit has operated, resulting in no sound).	● Same as above (after rectifying the problem, allow the amplifier to cool sufficiently before turning it on again).
<When the optional Song Request System KSS-V100 is connected> MAIN VOLUME and MIC MASTER VOLUME indicators do not light.	● The cord connecting the KSS-V100 is short circuited.	● Reconnect properly.

Abnormal functioning of this unit may be caused by static electricity, or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

SPECIFICATIONS

SA-V350

Continuous power output (DIN)
1 kHz, T.H.D. 1.0 %, 4 Ω ..... 150 W + 150 W
Peak music power (8 Ω) ..... 400 W + 400 W
Total harmonic distortion
(AUX IN, 1 kHz, 60 W, 8 Ω) 0.1%
Input Terminal (Sensitivity/Impedance)
Audio
MIC ..... 2.0 mV/25 kΩ
VCR/TAPE ..... 200 mV/50 kΩ
LD1, LD2, CABLE ..... 200 mV/50 kΩ
Video
LD1, LD2, VCR 1 Vp-p/75Ω
Output Terminal (Output level/Output impedance)
Audio
MONITOR L + R, L, R ..... 1 V/2.2 kΩ
Video
MONITOR, VCR ..... 1 Vp-p/75 Ω
Speakers Terminal ..... 4 to 16 Ω
Frequency Response
MIC ..... 50 Hz to 10 kHz $^{+0}_{-3}$ dB
LD1, LD2, VCR/TAPE, CABLE ..... 10 Hz to 40 kHz $^{+1}_{-3}$ dB
Tone Control (Music/Mic)
BASS ..... $\pm^{14}_{13}$ dB/$\pm^{14}_{13}$dB (100 Hz)
TREBLE ..... $^{+9}_{-12}$dB/ $^{+3}_{-12}$dB (10 kHz)

Echo delay time/decay time ..... 50 to 200 msec / 0.6 - 6 sec
Key Control Range
..... ± 2.5 musical intervals (11 positions)
Signal to Noise Ratio (EIA)
MIC ..... 64 dB
LD1, LD2, VCR/TAPE, CABLE ..... 71 dB

Power Supply,Others
Power requirements
..... AC 110 - 120 V/220 - 240 V, 50/60 Hz
Power consumptions ..... 630 W
Dimensions ..... 420 (W) × 129 (H) × 343 (D) mm
Weight (without package) ..... 9.7 kg

Accessories
Power cord 1
Audio cord 1
Operating instructions 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

SA-V300

Continuous power output (DIN)
1 kHz, T.H.D. 1.0 %, 4 Ω ..... 80 W + 80 W
Peak music power (8 Ω) ..... 260 W + 260 W
Total harmonic distortion
(AUX IN, 1 kHz, 30 W, 8 Ω) 0.1%
Input Terminal (Sensitivity/Impedance)
Audio
MIC ..... 2.0 mV/25 kΩ
VCR/TAPE ..... 200 mV/50 kΩ
LD1, LD2, CABLE ..... 200 mV/50 kΩ
Video
LD1, LD2, VCR 1 Vp-p/75Ω
Output Terminal (Output level/Output impedance)
Audio
MONITOR L + R, L, R ..... 1 V/2.2 kΩ
Video
MONITOR, VCR ..... 1 Vp-p/75 Ω
Speakers Terminal ..... 4 to 16 Ω
Frequency Response
MIC ..... 50 Hz to 10 kHz $^{+0}_{-3}$ dB
LD1, LD2, VCR/TAPE, CABLE ..... 10 Hz to 40 kHz $^{+1}_{-3}$ dB
Tone Control (Music/Mic)
BASS ..... $\pm^{14}_{13}$ dB/$\pm^{14}_{13}$dB (100 Hz)
TREBLE ..... $^{+9}_{-12}$dB/ $^{+3}_{-12}$dB (10 kHz)

Echo delay time/decay time ..... 50 to 200 msec / 0.6 - 6 sec
Key Control Range
..... ± 2.5 musical intervals (11 positions)
Signal to Noise Ratio (EIA)
MIC ..... 64 dB
LD1, LD2, VCR/TAPE, CABLE ..... 71 dB

Power Supply,Others
Power requirements
..... AC 110 - 120 V/220 - 240 V, 50/60 Hz
Power consumptions ..... 380 W
Dimensions ..... 420 (W) × 129 (H) × 343 (D) mm
Weight (without package) ..... 8.0 kg

Accessories
Power cord 1
Audio cord 1
Operating instructions 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

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